

Title (en)

Electromagnetic separator and separation method of ferromagnetic materials

Title (de)

Elektromagnetischer Trenner und Trennungsverfahren von ferromagnetischen Materialien

Title (fr)

Séparateur électromagnétique et procédé de séparation pour matériaux ferromagnétiques

Publication

EP 2070597 A1 20090617 (EN)

Application

EP 09150072 A 20060615

Priority

- EP 06766336 A 20060615
- IT 2006000453 W 20060615

Abstract (en)

Electromagnetic separator comprising two or more solenoids (6, 7) arranged inside a rotatable drum (1) and connected to a continuous current power supply (8) for generating a magnetic field suitable for separating ferromagnetic parts, wherein said power supply (8) supplies a current being substantially constant in time. The invention also relates to a separation method that can be carried out by means of said electromagnetic separator.

IPC 8 full level

B03C 1/033 (2006.01); **B03C 1/14** (2006.01)

CPC (source: EP KR US)

B03C 1/0335 (2013.01 - EP US); **B03C 1/14** (2013.01 - EP US); **B03C 3/15** (2013.01 - KR); **B03C 7/08** (2013.01 - KR)

Citation (applicant)

- WO 2005120714 A1 20051222 - SGM GANTRY SPA [IT], et al
- GB 607682 A 19480903 - RASMUS CHRISTIAN STRAAT WIIG
- GB 100062 A 19170411 - KRUPP AG GRUSONWERK [DE]
- GB 152549 A 19201021 - FRANCISCO QUINONERO
- GB 1083581 A 19670913 - FISONS LTD
- US 4062765 A 19771213 - FAY HOMER, et al

Citation (search report)

- [DA] WO 2005120714 A1 20051222 - SGM GANTRY SPA [IT], et al
- [A] WO 0175183 A2 20011011 - WORCESTER POLYTECH INST [US], et al
- [A] GB 1083581 A 19670913 - FISONS LTD
- [DA] US 4062765 A 19771213 - FAY HOMER, et al
- [DA] EP 0290360 A1 19881109 - PECHINEY [FR]

Cited by

WO2011085001A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007144912 A1 20071221; AT E549092 T1 20120315; BR PI0621821 A2 20101109; CN 101466472 A 20090624; CN 101466472 B 20110608; EP 2035149 A1 20090318; EP 2035149 B1 20120808; EP 2070597 A1 20090617; EP 2070597 B1 20120314; ES 2382936 T3 20120614; ES 2389966 T3 20121105; JP 2009539599 A 20091119; KR 101356601 B1 20140203; KR 20090027733 A 20090317; KR 20130126745 A 20131120; MX 2008016034 A 20090204; US 2009159511 A1 20090625; US 2009314690 A1 20091224; US 7918345 B2 20110405

DOCDB simple family (application)

IT 2006000453 W 20060615; AT 09150072 T 20060615; BR PI0621821 A 20060615; CN 200680054987 A 20060615; EP 06766336 A 20060615; EP 09150072 A 20060615; ES 06766336 T 20060615; ES 09150072 T 20060615; JP 2009514997 A 20060615; KR 20097001146 A 20060615; KR 20137028276 A 20060615; MX 2008016034 A 20060615; US 30498506 A 20060615; US 33545608 A 20081215